

Abstract of the Disclosure

A device, for use in the electrochemical analysis of an analyte in a small volume liquid sample, having a non-conducting substrate (1); a conductive layer, deposited on the substrate, in two parts (2a, 2b), defining a non-conducting gap (8) therebetween; an analyte-specific reagent (5) coated on the conductive layer, on one side of the gap; a reference electrode (3) on the conductive layer, on the other side of the gap; a spacer layer (4) deposited over the conductive layer; a monofilament mesh (6) coated with a surfactant or chaotropic agent, the mesh being laid over the reagent, the reference electrode and the spacer layer; and a second non-conductive layer (7) adhered to the mesh layer, but not coextensive therewith, thereby providing a sample application area (9) on the mesh.